L Number	Hits	Search Text	DB	Time stamp
1	26	(((reduc\$3 adj atmosphere) or ammonia or "nh.sub.3" or hydrogen or "h.sub.2") with ((metal\$2 adj organic) or organometallic or metallo-organic) with precursor) same ((tantalum tungsten titanium) adj	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/04 11:12
2	24	nitride) ((((reduc\$3 adj atmosphere) or ammonia or "nh.sub.3" or hydrogen or "h.sub.2") with ((metal\$2 adj organic) or organometallic or metallo-organic) with precursor) same ((tantalum tungsten titanium) adj	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/04 11:13
_	5706	nitride)) and @ad<20010816 semiconductor and precursor and reduc\$3 and metal	USPAT; EPO; JPO; DERWENT	2003/03/26 11:45
-	2588	(semiconductor and precursor and reduc\$3 and metal) and (ruthenium rhodium iridium cobalt palladium platinum nickel)	USPAT; EPO; JPO; DERWENT	2002/03/22 09:36
-	1296	((semiconductor and precursor and reduc\$3 and metal) and (ruthenium rhodium iridium cobalt palladium platinum nickel)) and	USPAT; EPO; JPO; DERWENT	2002/03/22 09:37
-	985	oxidi\$6 (((semiconductor and precursor and reduc\$3 and metal) and (ruthenium rhodium iridium cobalt palladium platinum nickel)) and oxidi\$6) and (titanium or tantalum or tungsten)	USPAT; EPO; JPO; DERWENT	2002/03/22 09:39
_	292	<pre>((((semiconductor and precursor and reduc\$3 and metal) and (ruthenium rhodium iridium cobalt palladium platinum nickel)) and oxidi\$6) and (titanium or tantalum or tungsten)) and capacitor</pre>	USPAT; EPO; JPO; DERWENT	2002/03/22 09:40
_	216	(((((semiconductor and precursor and reduc\$3 and metal) and (ruthenium rhodium iridium cobalt palladium platinum nickel)) and oxidi\$6) and (titanium or tantalum or tungsten)) and capacitor) and	USPAT; EPO; JPO; DERWENT	2002/03/22 09:44
_	136	<pre>(metallo-organic or organic) ((((((semiconductor and precursor and reduc\$3 and metal) and (ruthenium rhodium iridium cobalt palladium platinum nickel)) and oxidi\$6) and (titanium or tantalum or tungsten)) and capacitor) and (metallo-organic or organic)) and carbon</pre>	USPAT; EPO; JPO; DERWENT	2002/03/22 09:58
_	108	(((((((semiconductor and precursor and reduc\$3 and metal) and (ruthenium rhodium iridium cobalt palladium platinum nickel)) and oxidi\$6) and (titanium or tantalum or tungsten)) and capacitor) and (metallo-organic or organic)) and carbon) and electrode	USPAT; EPO; JPO; DERWENT	2002/03/22 09:59
-	686	(metal\$2 adj organic) with precursor\$1	USPAT; JPO; DERWENT	2002/05/08 08:58
-	730	(metal\$2 adj organic) with precursor\$1	USPAT; EPO; JPO; DERWENT USPAT;	2002/05/08 08:58 2002/05/08
-	8627 45030	reduc\$3 near3 (atmoshere or ambient) reduc\$3 near3 (atmosphere or ambient)	EPO; JPO; DERWENT USPAT;	09:00
_	7	((metal\$2 adj organic) with precursor\$1)	EPO; JPO; DERWENT USPAT;	09:00 2002/05/08 09:09
-	142	<pre>same (reduc\$3 near3 (atmosphere or ambient)) 438/686.ccls.</pre>	EPO; JPO; DERWENT USPAT; EPO; JPO; DERWENT	2002/05/08

Search History 8/4/03 12:13:18 PM Page 1

- 1880 reduc\$3 and (metal\$2 adj precusor) - 1880 reduc\$3 and (metal\$2 adj organic) and precursor - 12 438/686.ccls. and (reduc\$3 and (metal\$2 adj organic) and precursor) - 12 438/686.ccls. and (reduc\$3 and (metal\$2 adj organic) uspAT; EPO; JPO; DERWENT UspAT; EPO; JPO
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- 1768 (((reduc\$3 or ammonia or nh3) same ((metal\$2 adj organic) or organometallic or metallo-organic)) and (refractory or ti or tin or wn or w or tan or ta)) and (ruthenium or rhodium or iridium or cobalt or palladium or nickel) - 3 438/686.ccls. and ((((reduc\$3 or ammonia or nh3) same ((metal\$2 adj organic) or EPO; JPO; 12:01
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(cobalt or co) and (palladium or pd) and EPO; JPO; 10:00
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-	75	((nickel or ni) same (iridium or ir) same (cobalt or co) same (palladium or pd)	USPAT; EPO; JPO;	2002/05/15 13:04
		same (platinum or pt) and capacitor) and 438/\$3.ccls. and @ad<20010816	DERWENT	13.04
_	84	(nickel or ni) same (iridium or ir) same	USPAT;	2002/05/15
		<pre>(cobalt or co) same (palladium or pd) same (platinum or pt) same electrode and</pre>	EPO; JPO; DERWENT	11:35
_	32	capacitor ((nickel or ni) same (iridium or ir) same	USPAT;	2002/05/15
	32	(cobalt or co) same (palladium or pd) same (platinum or pt) same electrode and capacitor) and 438/\$3.ccls. and	EPO; JPO; DERWENT	13:05
	1.4	@ad<20010816 "6074945"	USPAT;	2002/10/07
_	14	0074343	EPO; JPO; DERWENT	18:02
-	12	("5130172" "5314727" "5352488" "5372849" "5392189" "5510651" "5520992" "5555486" "5561307"	USPAT	2002/10/07 16:23
		"5566045" "5581436" "5763633").PN.		2222/12/27
-	12	("5130172" "5314727" "5352488" "5372849" "5392189" "5510651" "5520992" "5555486" "5561307"	USPAT	2002/10/07 16:32
_	11	"5566045" "5581436" "5763633").PN.	USPAT	2002/10/07
				17:33
_	142	(reducing with atmosphere) and ((metal or metallo) with organic with precursor)	USPAT; EPO; JPO; DERWENT	2002/10/07
-	88	((reducing with atmosphere) and ((metal	USPAT; EPO; JPO;	2002/10/07 18:35
		or metallo) with organic with precursor)) and (rhodium or iridium or cobalt or	DERWENT	10.33
_	88	palladium or nickel) (((reducing with atmosphere) and ((metal	USPAT;	2002/10/08
		or metallo) with organic with precursor)) and (rhodium or iridium or cobalt or palladium or nickel)) not (micron adj technology).asn.	EPO; JPO; DERWENT	13:16
-	20	((reducing with atmosphere) and ((metal or metallo) with organic with precursor)) and iridium	USPAT; EPO; JPO; DERWENT	2002/10/07 18:35
_	204	(metal with precursor\$1) and (reducing	USPAT;	2002/10/08
		with atmosphere) and (ti or tan or ta or wn or w) and barrier	EPO; JPO; DERWENT	13:19
-	129	((metal with precursor\$1) and (reducing with atmosphere) and (ti or tan or ta or wn or w) and barrier) and (rhodium or	USPAT; EPO; JPO; DERWENT	2002/10/08
		iridium or palladium or cobalt)		2002/10/09
_	76	with atmosphere) and (ti or tan or ta or wn or w) and barrier) and (rhodium or	USPAT; EPO; JPO; DERWENT	2002/10/08
		iridium or palladium or cobalt)) and (hydrogen or "h.sub.2")		
-	75	((((metal with precursor\$1) and (reducing with atmosphere) and (ti or tan or ta or	USPAT; EPO; JPO; DERWENT	2002/10/08 13:22
		wn or w) and barrier) and (rhodium or iridium or palladium or cobalt)) and	DEVMENT	
_	4	(hydrogen or "h.sub.2")) and @ad<20010816 ((((metal with precursor\$1) and	USPAT;	2002/10/08
	7	(((((metal with precursory) and (reducing with atmosphere) and (ti or tan or ta or wn or w) and barrier) and (rhodium or iridium or palladium or	EPO; JPO; DERWENT	13:22
		cobalt)) and (hydrogen or "h.sub.2")) and		
_	7	<pre>@ad<20010816) and (metallo adj organic) reducing same (tdeat or tdmat) same metal</pre>	USPAT;	2002/10/08
			EPO; JPO; DERWENT	14:01
-	23740	((rhodium or rh) or (iridium or ir) or	USPAT;	2002/10/31
		<pre>(cobalt or co) or (palladium or pd) or (nickel or ni)) same (reduc\$3 with (gas or atmosphere))</pre>	EPO; JPO; DERWENT	11:17
t		1		

_	0	(((rhodium or rh) or (iridium or ir) or	USPAT;	2002/10/31 11:18
		(cobalt or co) or (palladium or pd) or (nickel or ni)) same (reduc\$3 with (gas	EPO; JPO; DERWENT	11:10
		or atmosphere))) and ("h.sub.2" or	DERWENT	
		hydrogen) and metallo?lorganic		
_	11630	(((rhodium or rh) or (iridium or ir) or	USPAT;	2002/10/31
		(cobalt or co) or (palladium or pd) or	EPO; JPO;	11:22
		(nickel or ni)) same (reduc\$3 with (gas	DERWENT	
1		or atmosphere))) and ("h.sub.2" or		
	2002178	hydrogen) ((titanium adj nitride) or titanium) or	USPAT;	2002/11/01
	2002170	((tungsten adj nitride) or w) or	EPO; JPO;	13:34
		((tantalum adj nitride) or ta)	DERWENT	20101
_	5644	((((rhodium or rh) or (iridium or ir) or	USPAT;	2002/10/31
		(cobalt or co) or (palladium or pd) or	EPO; JPO;	11:22
		(nickel or ni)) same (reduc\$3 with (gas	DERWENT	
-		or atmosphere))) and ("h.sub.2" or		
		hydrogen)) and (((titanium adj nitride)		
		or titanium) or ((tungsten adj nitride) or w) or ((tantalum adj nitride) or ta))		
<u> </u>	7451	(((rhodium or rh) or (iridium or ir) or	USPAT;	2002/10/31
	, 101	(cobalt or co) or (palladium or pd) or	EPO; JPO;	11:26
		(nickel or ni)) same (reduc\$3 with (gas	DERWENT	
		or atmosphere))) same ("h.sub.2" or		
		hydrogen)	HCDAM-	2002/10/21
-	3503	(((titanium adj nitride) or titanium) or	USPAT; EPO; JPO;	2002/10/31
		((tungsten adj nitride) or w) or ((tantalum adj nitride) or ta)) and	DERWENT	11.66
		((((rhodium or rh) or (iridium or ir) or	DBKWBW	
		(cobalt or co) or (palladium or pd) or		
		(nickel or ni)) same (reduc\$3 with (gas		
		or atmosphere))) same ("h.sub.2" or		
		hydrogen))	11CD3	2002/10/21
-	449	(((titanium adj nitride) or titanium) or	USPAT; EPO; JPO;	2002/10/31
		((tungsten adj nitride) or w) or ((tantalum adj nitride) or ta)) same	DERWENT	11.23
		((((rhodium or rh) or (iridium or ir) or	22122	
		(cobalt or co) or (palladium or pd) or		
		(nickel or ni)) same (reduc\$3 with (gas		
		or atmosphere))) same ("h.sub.2" or		
	071	hydrogen))	USPAT;	2002/10/31
-	271	((((titanium adj nitride) or titanium) or ((tungsten adj nitride) or w) or	EPO; JPO;	11:24
		((tantalum adj nitride) or ta)) same	DERWENT	1
		((((rhodium or rh) or (iridium or ir) or		
		(cobalt or co) or (palladium or pd) or		
		(nickel or ni)) same (reduc\$3 with (gas		
		or atmosphere))) same ("h.sub.2" or		
	_	hydrogen))) not (platinum or pt) (((((titanium adj nitride) or titanium)	USPAT;	2002/10/31
-	5	or ((tungsten adj nitride) or titanium)	EPO; JPO;	11:24
		((tantalum adj nitride) or ta)) same	DERWENT	
		((((rhodium or rh) or (iridium or ir) or		
		(cobalt or co) or (palladium or pd) or		
1		(nickel or ni)) same (reduc\$3 with (gas		
		or atmosphere))) same ("h.sub.2" or		
		hydrogen))) not (platinum or pt)) and 438/\$3.ccls.		
_	821	(((rhodium or rh) or (iridium or ir) or	USPAT;	2002/10/31
	521	(cobalt or co) or (palladium or pd) or	EPO; JPO;	11:27
		(nickel or ni)) same (reduc\$3 with (gas	DERWENT	
		or atmosphere))) same ("h.sub.2" or		
		hydrogen) same (deposit\$3 or releas\$3)	TIEDAM:	2002/10/21
-	98	(((titanium adj nitride) or titanium) or	USPAT; EPO; JPO;	2002/10/31
		((tungsten adj nitride) or w) or ((tantalum adj nitride) or ta)) same	DERWENT	13.31
		((((rhodium or rh) or (iridium or ir) or		
		(cobalt or co) or (palladium or pd) or		
		(nickel or ni)) same (reduc\$3 with (gas		
		or atmosphere))) same ("h.sub.2" or		
		hydrogen) same (deposit\$3 or releas\$3))		

_	11	("3830657" "5084413" "5087296" "5094697" "5112773" "5177569" "5198389" "5254481" "5445982"	USPAT	2002/10/31 11:56
_	0	"5554566" "5705845").PN. (("3830657" "5084413" "5087296" "5094697" "5112773" "5177569"	USPAT; EPO; JPO;	2002/10/31 11:57
		"5198389" "5254481" "5445982" "5554566" "5705845").PN.) and	DERWENT	
		((((rhodium or rh) or (iridium or ir) or (cobalt or co) or (palladium or pd) or (nickel or ni)) same (reduc\$3 with (gas		
 -	7	or atmosphere))) same ("h.sub.2" or hydrogen) same (deposit\$3 or releas\$3)) (("3830657" "5084413" "5087296"	USPAT;	2002/10/31
		"5094697" "5112773" "5177569" "5198389" "5254481" "5445982" "5554566" "5705845").PN.) and	EPO; JPO; DERWENT	11:58
		(((titanium adj nitride) or titanium) or ((tungsten adj nitride) or w) or ((tantalum adj nitride) or ta))		
_	0	(("3830657" "5084413" "5087296" "5094697" "5112773" "5177569" "5198389" "5254481" "5445982" "5554566" "5705845").PN.) and (((rhodium or rh) or (iridium or ir) or	USPAT; EPO; JPO; DERWENT	2002/10/31
		<pre>(cobalt or co) or (palladium or pd) or (nickel or ni)) same (reduc\$3 with (gas or atmosphere)))</pre>		
-	2	5668040.pn.	USPAT; EPO; JPO; DERWENT	2002/10/31 13:51
_	11	("4959745" "5053917" "5191510" "5262920" "5293510" "5352623" "5366920" "5381302" "5382817" "5392189" "5466629").PN.	USPAT	2002/10/31 13:52
-	2	5856236.pn.	USPAT; EPO; JPO; DERWENT	2002/11/01 13:20
-	11	("h.sub.2" or hydrogen) same (metallo near2 organic) same (((titanium adj nitride) or titanium) or ((tungsten adj nitride) or ta))	USPAT; EPO; JPO; DERWENT	2002/11/01 13:38
_	12	, · · ·	USPAT; EPO; JPO; DERWENT	2002/11/01 13:39
_	2	5130172.pn.	USPAT; EPO; JPO; DERWENT	2002/12/10 15:58
-	. 2	5856236.pn.	USPAT; EPO; JPO; DERWENT	2002/12/10 15:58
_	3387	<pre>@ad<20010816 and ((((reduc\$3 or ammonia or "nh.sub.3" or hydrogen or "h.sub.2") same ((metal\$2 adj organic) or organometallic or metallo-organic)) and (refractory or ti or tin or wn or w or tan or ta)) and (ruthenium or rhodium or iridium or cobalt or palladium or nickel))</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/01 17:15
-	9	(@ad<20010816 and ((((reduc\$3 or ammonia or "nh.sub.3" or hydrogen or "h.sub.2") same ((metal\$2 adj organic) or organometallic or metallo-organic)) and (refractory or ti or tin or wn or w or tan or ta)) and (ruthenium or rhodium or iridium or cobalt or palladium or nickel))) and 438/681.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/26 12:58

-	41	(@ad<20010816 and ((((reduc\$3 or ammonia	USPAT;	2003/03/26
		or "nh.sub.3" or hydrogen or "h.sub.2")	US-PGPUB;	13:06
		same ((metal\$2 adj organic) or	EPO; JPO;	
		organometallic or metallo-organic)) and	DERWENT	
		(refractory or ti or tin or wn or w or		
		tan or ta)) and (ruthenium or rhodium or		
		<pre>iridium or cobalt or palladium or nickel))) and ((etch\$3 or pattern\$3 or</pre>		
		photolithography) with (organometallic or		į
l i	į	<pre>(metal\$2 adj organic)))</pre>		
	222	@ad<20010816 and ((((reduc\$3 or ammonia	USPAT;	2003/08/01
-	333	or "nh.sub.3" or hydrogen or "h.sub.2")	US-PGPUB;	17:47
		same ((metal\$2 adj organic) or	EPO; JPO;	1 - 7 - 1 /
		organometallic or metallo-organic)) same	DERWENT	
	ļ	(refractory or ti or tin or wn or w or	<i>DD1D</i>	
		tan or ta)) same (ruthenium or rhodium or		
		iridium or cobalt or palladium or		
		nickel))		
_	3	(@ad<20010816 and ((((reduc\$3 or ammonia	USPAT;	2003/08/01
		or "nh.sub.3" or hydrogen or "h.sub.2")	US-PGPUB;	17:31
		same ((metal\$2 adj organic) or	EPO; JPO;	
		organometallic or metallo-organic)) same	DERWENT	
[(refractory or ti or tin or wn or w or		
		tan or ta)) same (ruthenium or rhodium or		
		iridium or cobalt or palladium or		
		nickel))) and electrode and capacitor		
-	31	(@ad<20010816 and ((((reduc\$3 or ammonia	USPAT;	2003/08/01
]		or "nh.sub.3" or hydrogen or "h.sub.2")	US-PGPUB;	17:34
		same ((metal\$2 adj organic) or	EPO; JPO;	
		organometallic or metallo-organic)) same	DERWENT	
		(refractory or ti or tin or wn or w or		
ļ j		tan or ta)) same (ruthenium or rhodium or		
		<pre>iridium or cobalt or palladium or nickel))) and electrode</pre>		
	90	@ad<20010816 and ((((reduc\$3 or ammonia	USPAT;	2003/08/01
_	90	or "nh.sub.3" or hydrogen or "h.sub.2")	US-PGPUB;	17:45
		same ((metal\$2 adj organic) or	EPO; JPO;	1,110
		organometallic or metallo-organic)) same	DERWENT	
		(refractory or ti or wn or w or tan or		
		ta)) same (ruthenium or rhodium or		
		iridium or cobalt or palladium or		
		nickel))		
_	17	(@ad<20010816 and ((((reduc\$3 or ammonia	USPAT;	2003/08/01
		or "nh.sub.3" or hydrogen or "h.sub.2")	US-PGPUB;	17:34
		same ((metal\$2 adj organic) or	EPO; JPO;	
		organometallic or metallo-organic)) same	DERWENT	
		(refractory or ti or wn or w or tan or		
1		ta)) same (ruthenium or rhodium or		
		iridium or cobalt or palladium or		
		nickel))) and electrode	HCDAM.	2003/08/01
-	257	((reduc\$3 adj atmosphere) or ammonia or	USPAT; US-PGPUB;	17:46
· .		"nh.sub.3" or hydrogen or "h.sub.2") with	EPO; JPO;	11.30
1		((metal\$2 adj organic) or organometallic or metallo-organic) with precursor	DERWENT	
	218	or metallo-organic) with precursor (((reduc\$3 adj atmosphere) or ammonia or	USPAT;	2003/08/01
-	218	"nh.sub.3" or hydrogen or "h.sub.2") with	US-PGPUB;	17:48
		((metal\$2 adj organic) or organometallic	EPO; JPO;	
		or metallo-organic) with precursor) and	DERWENT	
		@ad<20010816	1	
_	47	1	USPAT;	2003/08/01
		"nh.sub.3" or hydrogen or "h.sub.2") with	US-PGPUB;	18:37
		((metal\$2 adj organic) or organometallic	EPO; JPO;	
	Ì	or metallo-organic) with precursor) same	DERWENT	
		(refractory or ti or wn or w or tan or		
		ta)	1	
-	42		USPAT;	2003/08/01
	1	"nh.sub.3" or hydrogen or "h.sub.2") with	US-PGPUB;	17:48
		((metal\$2 adj organic) or organometallic	EPO; JPO;	
		or metallo-organic) with precursor) same	DERWENT	
		(refractory or ti or wn or w or tan or		
1	1	ta)) and @ad<20010816	<u> </u>	